PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 2003P01010WO	FOR FURTHER ACTION	Sce item 4 below		
International application No. PCT/EP2004/053248	International filing date (day/month/year) 02 December 2004 (02.12.2004)	Priority date (day/month/year) 04 December 2003 (04.12.2003)		
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant BSH BOSCH UND SIEMENS HAU	JSGERĀTE GMBH			

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).				
2.	This REPORT consists of a total of 7 sheets, including this cover sheet.				
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.				
3.	. This report contains indications relating to the following items:				
	Box No. I	Basis of the report			
	Box No. II	Priority			
	Box No. III	Non-establishment of opinapplicability	on with regard to novelty, inventive step and industrial		
	Box No. IV	Lack of unity of invention			
	Box No. V		Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement		
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the intern	national application		
	Box No. VIII	Certain observations on the	international application		
4.	 The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2). 				
			Date of issuance of this report 29 August 2006 (29.08.2006)		
	The International Burea 34, chemin des Colo 1211 Geneva 20, Swi	mbettes	Authorized officer Agnes Wittmann-Regis		
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Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY		RANC.	
То:			PCT PCT
			RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY
			(PCT Rule 43bis.1)
		Date of mailing (day/month/year)	See Form PCT/ISA/210 (sheet 2)
Applicant's or agent's file reference		FOR FURTHER A	ACTION
2003P01010WO			See paragraph 2 below
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/EP2004/053248	02.12.2004		04.12.2003
Box No. II Priority Box No. III Non-esta	the opinion		ive step and industrial applicability
Box No. V Reasoned	inity of invention I statement under Rule 43 <i>bis</i> lity; citations and explanatio		novelty, inventive step or industrial ement
Box No. VI Certain d	ocuments cited		
Box No. VII Certain d	efects in the international ap	plication	
Box No. VIII Certain o	bservations on the internatio	onal application	
International Preliminary Examinin than this one to be the IPEA and the this International Searching Author If this opinion is, as provided abo	ng Authority ("IPEA") excepte chosen IPEA has notified ity will not be so considered we, considered to be a writte ropriate, with amendments,	ot that this does not app if the International Burd. I. en opinion of the IPEA before the expiration	l be considered to be a written opinion of the oly where the applicant chooses an Authority other eau under Rule 66.1bis(b) that written opinions of a, the applicant is invited to submit to the IPEA a of 3 months from the date of mailing of Form expires later.
For further options, see Form PCT	TSA/220.	-	
For further details, see notes to For	m PCT/ISA/220.		
Name and mailing address of the ISA/EP		Authorized officer	
and making addless of the ISMEF		Authorized officer	
Facsimile No.		Telephone No.	

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Box	k No. I	Basis of this opinion
1.	With	regard to the language, this opinion has been established on the basis of the international application in the language in which it was, unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under
	•	Rule 12.3 and 23.1(b)).
2.		a regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed ntion, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Add	itional comments:

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1.	Statement		
	Novelty (N)	Claims 2, 3, 5-10, 12-21 Claims 1, 4, 11	
	Inventive step (IS)	Claims 1-21	YE
	Industrial applicability (IA)	Claims 1-21 Claims	
2.	Citations and explanations:		
	Reference is mad	de to the following documents:	
		1-6 442 341 (WU CHIA-HSIUNG)	
	D2: DE 19	98 52 888 A1 (BRAUN GMBH) 31 May 2000 0-05-31)	
		1 32 663 U (ELPAG AG) 17 February 1972 2-02-17)	
		-4 334 141 (ROLLER <i>ET AL</i> .) 8 June 1982 2-06-08)	
	PCT Article 33(lication does not meet the requirements (

this document):

A heating device for fluids for installation in a flow heater, with at least one heating element (5) designed as an electric resistance heater, at least one heat transfer element (1) which is connected in a heat-conducting

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Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

manner to the heating element and the fluid in order to transfer the heat generated by the heating element, the heat transfer element forming an integral housing component of a pressure— and temperature—resistant flow heater having an essentially planar central region on which the heating element is mounted (figure 1; column 4, line 42 to column 5, line 10).

The subject matter of claim 1 is therefore not novel.

D2 likewise discloses (the references between parentheses apply to this document):

A heating device for fluids, the heating element being formed from a material with a positive temperature characteristic (column 4, line 42 to column 5, line 10).

A flow heater with a heating device and a moulded part, which is connected to the latter in a positive, pressure-resistant and thermally stable manner, in order to form a fluid space, the moulded part having at least one inlet opening and at least one outlet opening (column 4, line 42 to column 5, line 10).

The subject matter of claims 4 and 11 is therefore not novel.

For the sake of completeness, it is additionally emphasized that the subject matter of independent claim 1 is also not novel over the publication of D1, D2 or D3 (PCT Article 33(2)).

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Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The present application does not meet the requirements of PCT Article 33(1) because the subject matter of claims 2, 3 and 5 to 21 does not involve an inventive step within the meaning of Article 33(3).

Dependent claims 2, 3 and 5 to 10 concern minor structural modifications of the heating device according to claim 1 of the kind that a person skilled in the art routinely makes on the basis of familiar considerations, especially since the resulting advantages are readily foreseeable. Consequently, the subject matter of claims 2, 3 and 5 to 10 is not based on an inventive step.

The same reasoning also applies correspondingly to claims 11 to 21. The subject matter of claims 11 to 21 therefore does not involve an inventive step (PCT Article 33(3).

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Box No. VIII

Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Pursuant to PCT Rule 5.1(a)(ii), the description should have cited D1, D2, D3 and D4; the relevant prior art contained therein should be briefly outlined.

The expression '(PTC)' used in claim 4 is not a reference sign but rather is a particular feature. In consequence, it is unclear whether the features added to the reference sign limit the scope of the claim. Such features placed between parentheses are consequently generally inadmissible.